

ART 34 ANDT

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CLAIMS

1. "GUILLOTINE VALVE", wherein  
its body (1) incorporates two sealing elements (7), mounted  
in form entirely counteropposed and in mutual contact; the  
5 sealing elements (7) are interchangeable, hollow in their  
entire construction circumference and produced of elastomer;  
each one of the sealing elements (7), as regards their  
construction circumference, incorporates a pneumatic  
circumferential watertight chamber (8) entirely filled with  
10 air.

2. "GUILLOTINE VALVE", according  
to claim 1, wherein the sealing elements (7) present a  
convex contour in their internal faces (9).

3. "GUILLOTINE VALVE", according  
15 to claim 2, wherein the convex format of the internal face  
(9) of each one of the sealing elements (7) makes the very  
pressure of the line fluid to provide an increment in the  
resultant of forces that act in the axial direction of the  
flow.

20 4. "GUILLOTINE VALVE", according  
to claim 1, wherein the sealing elements (7) incorporate,  
each one, a metallic bore in form of "T" (10), each metallic  
bore (10) is composed by two portions independent between  
themselves and indicated by the references (11) and (12);  
25 the tubular portion (11) has as function to provide  
stiffness to the sealing, whereas the portion (12) that has  
the form of disk, actuates as a ring of distribution of  
the load exerted by the pipe flanges.

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5. "GUILLOTINE VALVE", according to claim 1, wherein the herein proposed valve incorporates sliding rings (13) manufactured of plastic material resistant to wear; the sliding rings (13) are installed in  
5 corresponding ringlike cavities (14) defined in the housing (15) of the monobloc body (1).

6. "GUILLOTINE VALVE", according to claim 1, wherein the proposed valve has an upper sealing system (16) that is formed by a piece (17) produced with  
10 elastomeric body, which is associated to a metallic reinforcement (18); the upper sealing system (16) has grease applying devices (19) that are directly mounted through the metallic reinforcement piece (18), being communicated with the internal area of the elastomeric sealing piece (17),  
15 where are the cavities (20), through a channel (21); the metallic reinforcement piece (18) is fixed to the body (1) of the valve by means of screws (22).